

FLUORINE-CONTAINING TRICARBOXYLIC ACID-TYPE AMPHOTERIC COMPOUND AND PREPARATION

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Abstract of JP58201752

NEW MATERIAL:The compound of formula I (Rf is 3-18C fluorinated aliphatic group; Z is -SO₂-, -CO-, -(CH₂)_l-SO₂- (l is 1-6), etc.; R₁ is H, -CH₂CH₂OH, 1- 12C alkyl, etc.; Q₁ is -(CH₂)_n- (n is 2-6), etc.; X is inorganic or organic anion; m₁-m₃ are 1-3; M₁-M₃ are H, or inorganic or organic cation).

EXAMPLE: The compound of formula II.

USE:A surface active agent having excellent surface tension lowering activity, frothing property, resistance to hard water, and solubility.

PROCESS: The compound of formula I wherein X is Cl, Br or I can be prepared by reacting the compound of formula III with the compound of formula IV (X' is Cl, Br or I) in the presence of a basic catalyst (in the case of $m_1=m_2=m_3$) or by reacting 1mol of the compound of formula III with 2.0-2.4mol of the compound of formula V and further reacting with 1.0-1.2mol of the compound of formula VI (in the case of $m_1=m_2$ not equal to m_3).

